

FEATURES

- Subminiature, low PCB occupation area
- Heavy duty, with choice of contact materials
- Standard and high sensitive type for choice

TYPICAL APPLICATIONS

- Office machines
- Vending machines
- Home appliances
- Audio equipment

CONTACT RATING

| | |
|-----------|--------------------------|
| Form | 1 Form A (H) 1Form C (Z) |
| Resistive | 10A, 120VAC/28VDC (C) |
| TV | 5A, 125VAC (S) |

CONTACT DATA

| | | |
|----------------------------|---------------------------|----------------------|
| Material | AgCdO, AgSnOInO | |
| Initial Contact Resistance | 100 mΩ max. at 0.1A, 6VDC | |
| Service Life | Mechanical | 10 ⁷ ops. |
| | Electrical | 10 ⁵ ops. |

UL/CSA/TUV RATING

| | | |
|-----------|---|-----------------------|
| Form | 1 Form A (H) 1 Form C (Z) | Contact Material Code |
| Resistive | 5A, 240VAC (TUV) 10A, 120VAC (UL/CSA) 10A, 28VDC (UL/CSA/TUV) | C |
| TV | 5A, 125VAC (UL/CSA) | S |

COIL DATA

| Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ω) ±10% | | Must Operate Voltage max. (VDC) | Must Release Voltage min. (VDC) |
|-------------------|-----------------------|---------------------|-----------|---------------------------------|---------------------------------|
| | | Power Consumption | | | |
| | | Standard | Sensitive | | |
| 003 | 3 | 20 | 45 | 2.25 | 0.15 |
| 005 | 5 | 55 | 125 | 3.75 | 0.25 |
| 006 | 6 | 80 | 180 | 4.50 | 0.30 |
| 009 | 9 | 180 | 400 | 6.75 | 0.45 |
| 012 | 12 | 320 | 720 | 9.00 | 0.60 |
| 024 | 24 | 1280 | 2800 | 18.00 | 1.20 |
| 048 | 48 | 5100 | | 36.00 | 2.40 |

CHARACTERISTICS

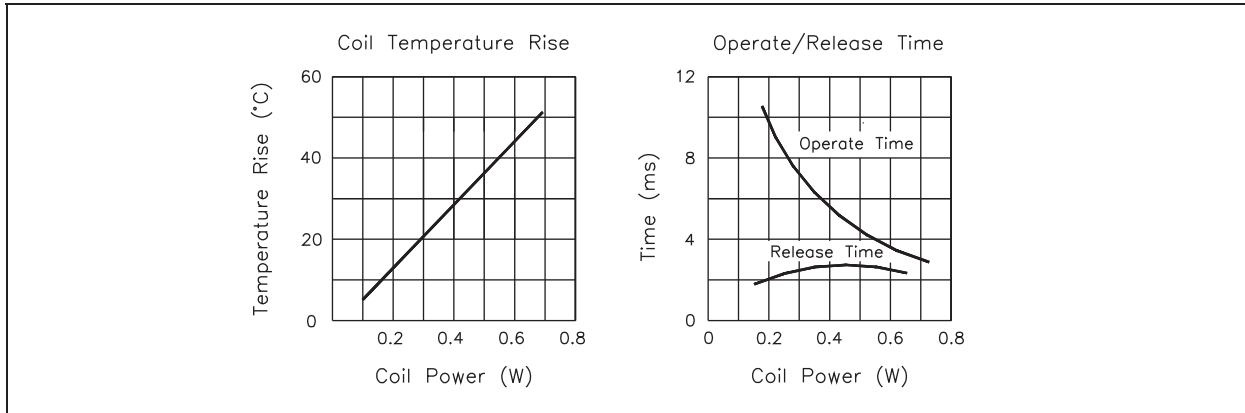
| | |
|-----------------------|--|
| Operate Time | 10 ms. max. |
| Release Time | 4 ms. max. |
| Insulation Resistance | 100 MΩ , at 500VDC, 50%RH |
| Dielectric Strength | 3500 Vrms, 1 min. between coil and contacts, 1 Form A 2800 Vrms, 1 min. between coil and contacts, 1 Form C 750 Vrms, 1 min. between open contacts |
| Surge Resistance | 5000 V |
| Shock Resistance | 10 g, 11ms. functional; 100 g, destructive |
| Vibration Resistance | DA 1.5mm, 10 - 55 Hz |
| Ambient Temperature | -30°C to 60°C operating |
| Weight | 6 g, approx. |

ORDERING DESIGNATION

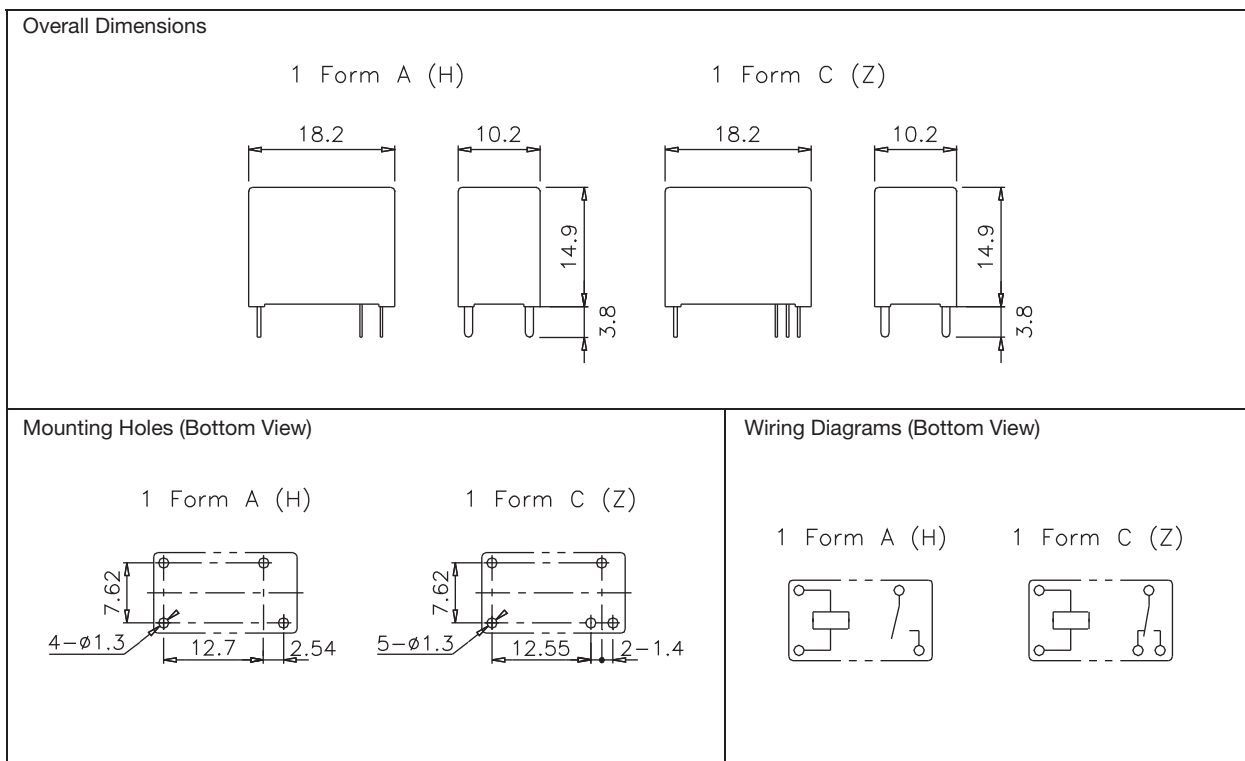
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|---|----------|-------|---|---|---|---|
| Example: | HG4183 / | 012 - | H | 1 | C | L |
| Model | | | | | | |
| Coil Voltage Code | | | | | | |
| Contact Form | | | | | | |
| H: 1 Form A; Z: 1 Form C | | | | | | |
| Version | | | | | | |
| 1: Sealed; 2: Flux Free | | | | | | |
| Contact Material | | | | | | |
| A: AgNi0.15; C: AgCdO; S: AgSnOInO | | | | | | |
| Coil Sensitivity | | | | | | |
| Nil: Standard 0.45W; L: Sensitive 0.2W* | | | | | | |

*Note: Sensitive 0.2W (L) is only available for 1 Form A (H)

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. For sensitive type L rated current is reduced to 70%
3. Custom-made services available with operational quantity. Please let us know your special requirements.
4. Specifications subject to change without prior notice.

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